**SQL JOINS**

SQL joins are a powerful way of pulling data together from different tables.

| **Excel Term** | **SQL Equivalent** |
| --- | --- |
| Worksheet | Table |
| Row | Record |
| Column | Field |
| VLOOKUP | JOIN |
| #N/A (No Match) | NULL |

**JOINS** let you combine data from multiple tables using a common column.

Table\_1 → Customers: PK = Customer\_ID, FK = Order\_ID

Table\_2 → Orders: PK = Order\_ID

In this case:

**Orders.Order\_ID = Customers.Order\_ID**

Type of Joins:

1. Inner Join
2. Outer Join
3. Left Join
4. Right Join
5. Full Outer Join

**INNER JOIN:** Returns only the rows where there is a match in both the tables.

**Subquery:**

It is used to nest multiple SELECT statements.

Use cases:

1. Filtering Data
2. Calculating Aggregates
3. Joining Tables